



P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

European
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

Godemeyer, Thomas, Dr.
Sternagel, Fleischer, Godemeyer & Partner
Patentanwälte
An den Gärten 7
51491 Overath
ALLEMAGNE

Sternagel, Fleischer,
Godemeyer & Partner

02. Aug. 2002

eingegangen/received

Datum/Date

30. 07. 2002

Zeichen/Ref./Réf.

990211ep

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°
98929851.8

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

THE INSTITUTE OF PHYSICAL & CHEMICAL RESEARCH

COMMUNICATION

The European Patent Office herewith transmits

- ☐ the European search report
- ☐ the declaration under Rule 45 EPC
- ☐ the partial European search report under Rule 45 EPC
- ☒ the supplementary European search report concerning the international application under Article 157(2) EPC relating to the above-mentioned European patent application. Copies of the documents cited in the search report are enclosed.

The following specifications given by the applicant have been approved by the Search Division :

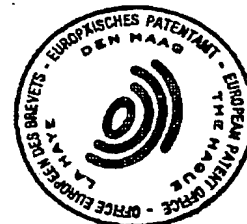
- ☒ Abstract ☒ Title ☐ Figure
- ☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.
- ☐ The following figure will be published with the abstract, since the Search Division considers that it better characterises the invention than the one indicated by the applicant.

Figure:

- ☒ Additional copy(copies) of the documents cited in the European search report.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO Form 1507 02.93



European Patent
Office

**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 98 92 9851

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)		
A	KOSTYUK D A ET AL: "Mutants of T7 RNA polymerase that are able to synthesize both RNA and DNA." FEBS LETTERS, vol. 369, no. 2-3, 1995, pages 165-168, XP002205284 ISSN: 0014-5793 * the whole document *		C12N15/54 C12N9/12 C12N1/21 C12Q1/68 C12P19/34 //C12N9:12, C12R1:19, C12N1:21, C12R1:19		
D,A	SOUSA R ET AL: "A MUTANT T7 RNA POLYMERASE AS A DNA POLYMERASE" EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 14, no. 18, 1995, pages 4609-4621, XP002049775 ISSN: 0261-4189 * the whole document *				
A	AXELROD V D ET AL: "TRANSCRIPTION FROM BACTERIOPHAGE T7 AND SP6 RNA POLYMERASE PROMOTERS IN PRESENCE OF 3'-DEOXYRIBONUCLEOSIDE 5'-TRIPHOSPHATE CHAIN TERMINATORS" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 24, no. 21, 1 October 1985 (1985-10-01), pages 5716-5723, XP000674402 ISSN: 0006-2960 * the whole document *		<table border="1"><thead><tr><th>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</th></tr></thead><tbody><tr><td>C12N C12Q C12P</td></tr></tbody></table>	TECHNICAL FIELDS SEARCHED (Int.Cl.6)	C12N C12Q C12P
TECHNICAL FIELDS SEARCHED (Int.Cl.6)					
C12N C12Q C12P					
The supplementary search report has been based on the last set of claims valid and available at the start of the search.					
Place of search THE HAGUE		Date of completion of the search 9 July 2002	Examiner Hornig, H		
<table><tr><td>CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</td><td>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</td></tr></table>				CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document				

1
EPO FORM 1503 03.82 (P04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	BONNER G ET AL: "Mutations in T7 RNA polymerase that support the proposal for the common polymerase active site structure" EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 11, no. 10, 1992, pages 3767-3775, XP002102548 ISSN: 0261-4189 * the whole document *		
A	BONNER GARY ET AL: "Characterization of a set of T7 RNA polymerase active site mutants" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 269, no. 40, 1994, pages 25120-25128, XP002189161 ISSN: 0021-9258 * the whole document *		
A	MAKAROVA OLGA V ET AL: "Transcribing of Escherichia coli genes with mutant T7 RNA polymerases: Stability of lacZ mRNA inversely correlates with polymerase speed" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 92, no. 26, 1995, pages 12250-12254, XP002189160 ISSN: 0027-8424 * the whole document *		TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search THE HAGUE		Date of completion of the search 9 July 2002	Examiner Hornig, H
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1
EPO FORM 1503 03 82 (P04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	PARVIN J D ET AL: "RAPID RNA SEQUENCING USING DOUBLE-STRANDED TEMPLATE DNA, SP6 POLYMERASE, AND 3'DEOXYNUCLEOTIDE TRIPHOSPHATES" DNA, MARY ANN LIEBERT, NEW YORK, NY, US, vol. 5, no. 2, 1 April 1986 (1986-04-01), pages 167-171, XP000674970 ISSN: 1044-5498 * the whole document *		
A	KLEMENT J F ET AL: "SEQUENCING OF DNA USING T3 RNA POLYMERASE AND CHAIN TERMINATING RIBONUCLEOTIDE ANALOGS" GENE ANALYSIS TECHNIQUES, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 3, no. 4, 1 July 1986 (1986-07-01), pages 59-66, XP000674971 ISSN: 0735-0651 * the whole document *		
A	US 5 385 834 A (IKEDA RICHARD A) 31 January 1995 (1995-01-31) * the whole document *		TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	EP 0 727 496 A (HARVARD COLLEGE) 21 August 1996 (1996-08-21) * the whole document *		
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search THE HAGUE		Date of completion of the search 9 July 2002	Examiner Hornig, H
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

1
EPO FORM 1503 03.82 (P04C04)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 92 9851

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-07-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5385834	A	31-01-1995	NONE	

EP 0727496	A	21-08-1996	US 5614365 A	25-03-1997
			DE 29513622 U1	19-10-1995
			DE 29513639 U1	19-10-1995
			EP 0727496 A2	21-08-1996
			JP 2691149 B2	17-12-1997
			JP 8205874 A	13-08-1996
			AT 143057 T	15-10-1996
			AU 4193396 A	06-05-1996
			CA 2201885 A1	25-04-1996
			CN 1170439 A	14-01-1998
			DE 69400567 D1	24-10-1996
			DE 69400567 T2	06-02-1997
			DE 655506 T1	28-09-1995
			DK 655506 T3	10-03-1997
			EP 0655506 A1	31-05-1995
			ES 2072238 T1	16-07-1995
			FI 971611 A	13-06-1997
			GR 95300040 T1	31-07-1995
			HU 77037 A2	02-03-1998
			WO 9612042 A2	25-04-1996
			ZA 9508761 A	13-05-1996
